

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080585 A1

(51) International Patent Classification⁷: **C12P 19/26**,
C07K 14/535, A61K 38/17, G01N 33/68

(21) International Application Number:
PCT/EP2005/001593

(22) International Filing Date: 14 February 2005 (14.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04090047.4 13 February 2004 (13.02.2004) EP
04090059.9 19 February 2004 (19.02.2004) EP
04090101.9 11 March 2004 (11.03.2004) EP

(71) Applicant (*for all designated States except US*): **GLYCO-
TOPE GMBH** [DE/DE]; Robert-Rössle-Str. 10, 13125
Berlin (DE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GOLETZ, Steffen**
[DE/DE]; Eichhornstr. 24, 16548 Glienicke-Nordbahn
(DE). **BAUMEISTER, Hans** [DE/DE]; Hochsitzweg 159,
14169 Berlin (DE). **SCHÖBER, Ute** [DE/DE]; Kreuzstr.
7, 13187 Berlin (DE).

(74) Agents: **ZIEBIG, Marlene K.** et al.; GULDE HENGEL-
HAUPT ZIEBIG & SCHNEIDER, Wallstr. 58/59, 10179
Berlin (DE).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: HIGHLY ACTIVE GLYCOPROTEINS-PROCESS CONDITIONS AND AN EFFICIENT METHOD FOR THEIR PRO-
DUCTION

(57) Abstract: The present invention relates to highly active glycoproteins with specific sialylation degrees, a pharmaceutical com-
position for use in diagnosis or therapy comprising the glycoproteins, a method for the determination of highly active glycoproteins
and of the conditions for their production, a method for producing the highly active glycoproteins, and a method for differential sia-
lylation of secretory glycoproteins. The invention also relates to the use of the recombinantly expressed highly active glycoproteins
for biological purposes and for prophylactic and/or therapeutic treatment or diagnosis of diseases, particularly bone marrow trans-
plantation, neutropenia, cytopenia, AML and myelodysplastic syndromes, cancer, HIV and/or diseases of hematopoietic systems.



WO 2005/080585 A1